
Male Connector With Retaining Element

Claims

1. Male connector (13) for connecting to a female connector (1),
the female connector (1) having a female connector housing (2) with a first longitudinal axis (3) and an insertion chamber (5) enclosed by a wall (4) and open to an end face (6) of the female connector housing (2) and closed at the end, distanced thereto, by a base (8), to which first contacts (7) are arranged, projecting into the insertion chamber (5) from the base (8) and arranged parallel to the first longitudinal axis (3), wherein on an outer face (9) of the wall (4) enclosing the insertion chamber (5) at least one retaining projection (10) is arranged projectingly, the male connector (13) comprising
 - a male connector housing (14),
having a second longitudinal axis (15),
having a first housing portion (16), insertable into the insertion chamber (5), when the longitudinal axes (3, 15) are arranged parallel to each other, with an end face (17), from which second contacts, fitting to the first contacts (7) and for connecting to the same are accessible, and
having an elastically deflectable locking arm (21) with locking means (23), arranged opposed to the locking projection (10) when connecting to the female connector housing (2),
 - a slider (29),
held displaceable on the male connector housing (14) along the second longitudinal axis (15) between a releasing position and a locking position and preventing in the locking position a deflection of the locking arm (21),

- at least one compression spring (27), which on the one hand is supported on the male connector housing (14) and on the other hand on the slider (29) and acts onto the slider (29) to take up its locking position, and
 - an elastic retaining element (35),
formed from steel wire,
having two spring legs (37) distanced to each other and extending from a connection portion (36) and an attachment portion (39) respectively attached to each spring leg (37) in an angled manner, wherein each attachment portion (39) engages in a separate insertion bore (33, 34) of the slider (29) and wherein the insertion bores (33, 34) extend at a right angle to the second longitudinal axis (15) and are parallel off-set to each other.
2. Male connector according to claim 1,
characterised in that
the spring legs continue from the connection portion (36) with a winding (38) in such a way, that each spring leg (37) leaves the connection portion (36) by crossing same.
3. Male connector according to claim 1,
characterised in that
the spring legs (37) extend starting from the connection portion (36) in such a way, that the attachment portions (39) are off-set parallel to each other.
4. Male connector according to claim 1,
characterised in that
the retaining element (35) is made from a round wire.